

FIG. 1

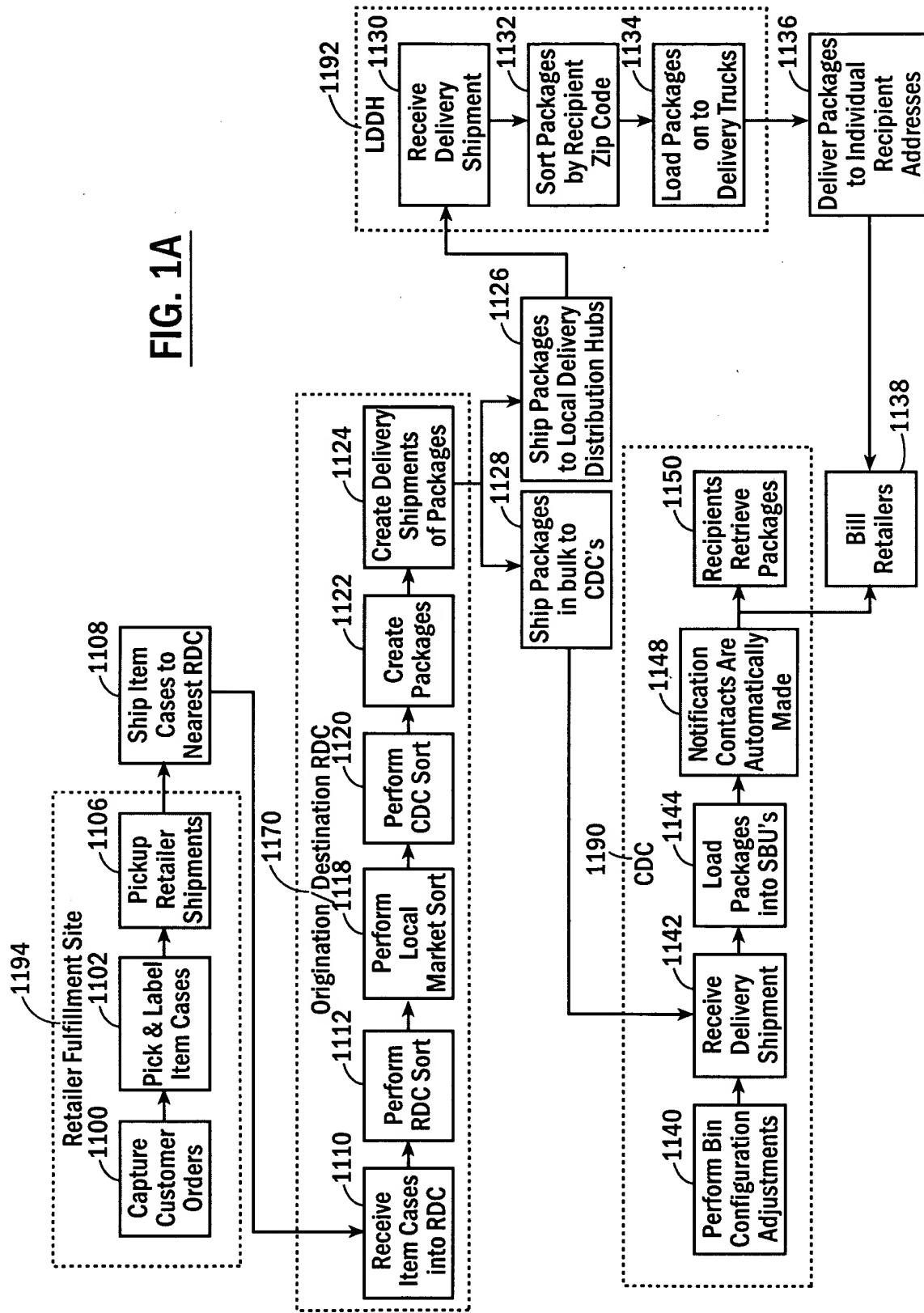


FIG. 1A

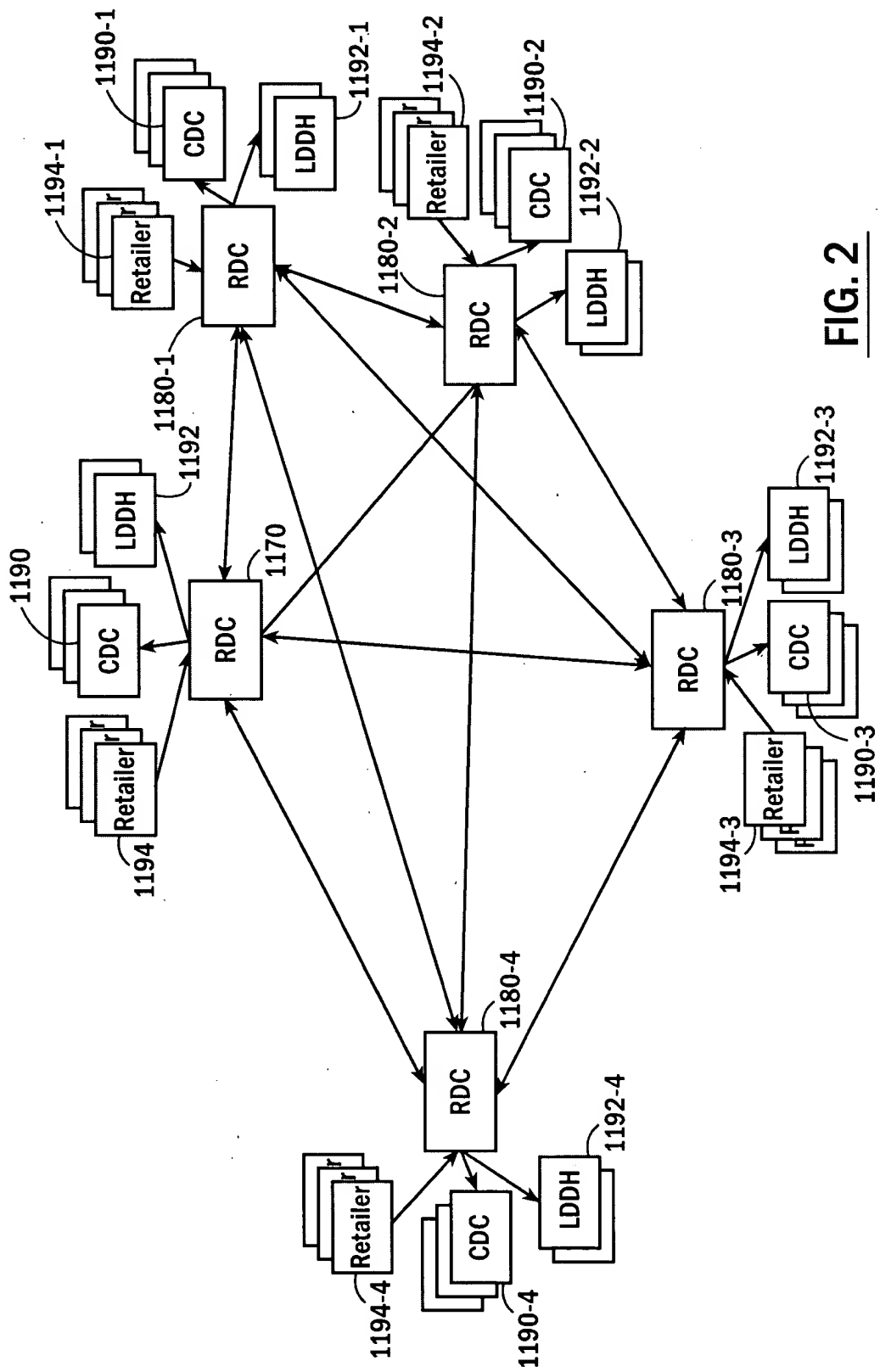
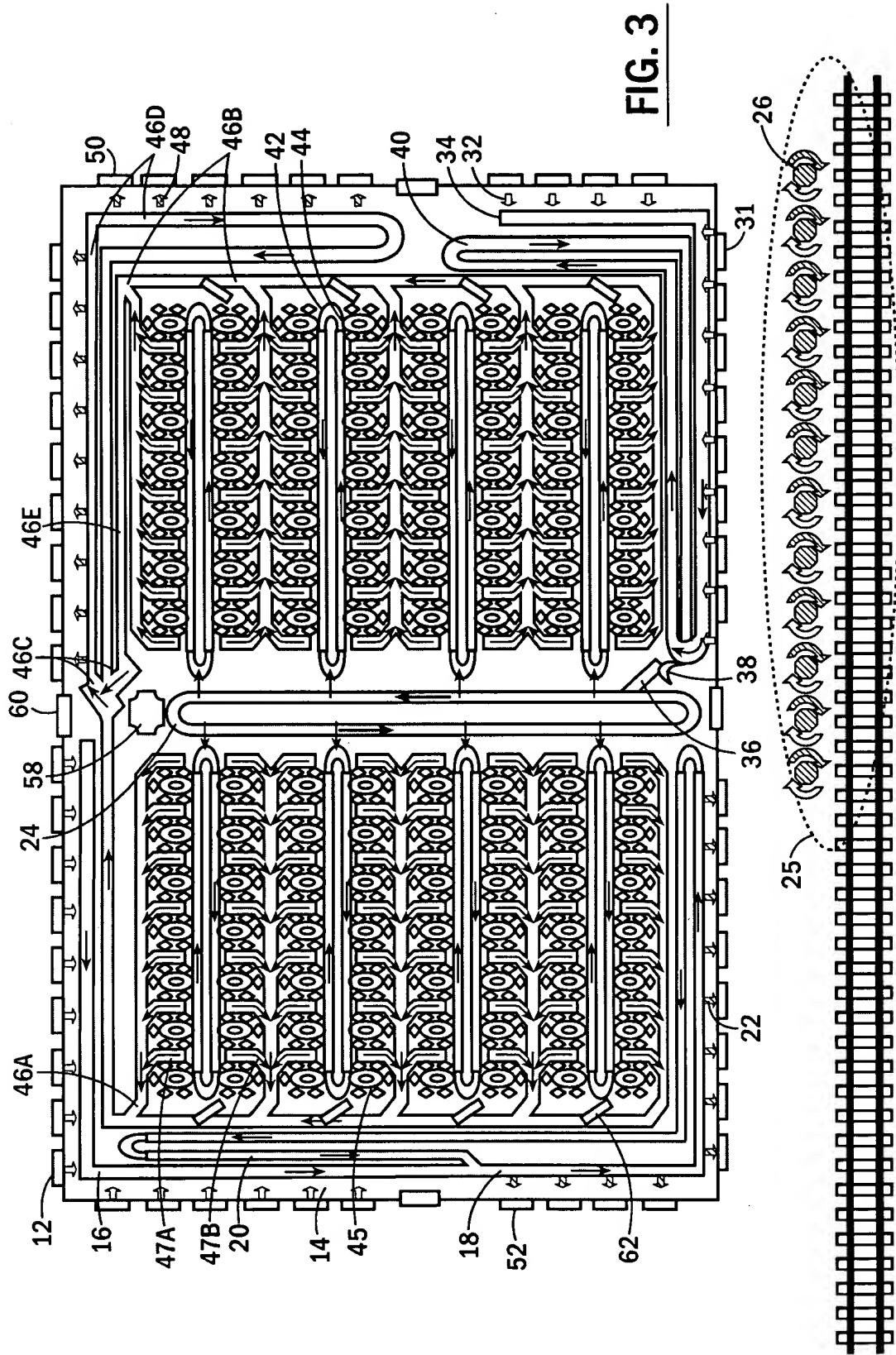


FIG. 2



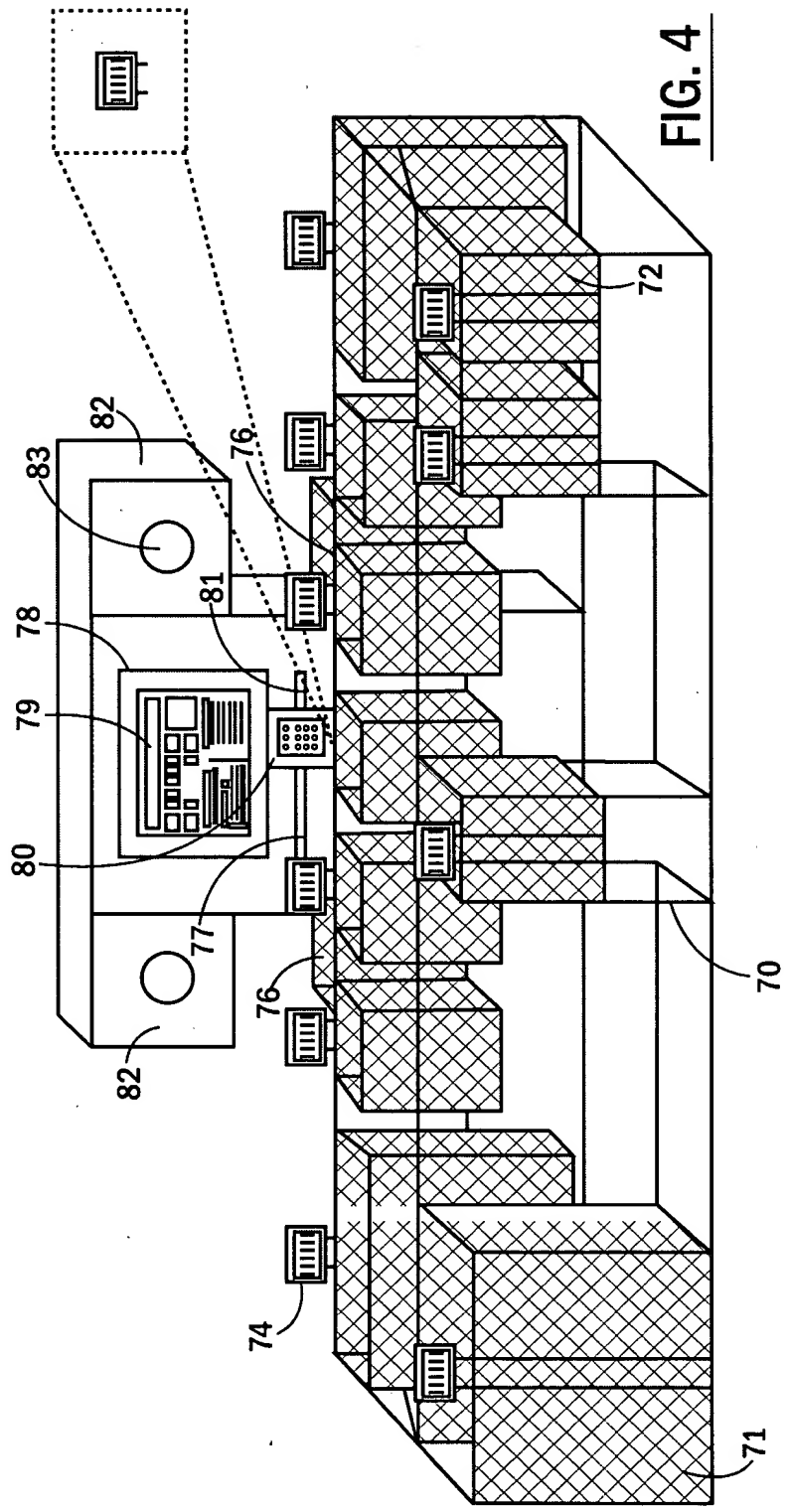
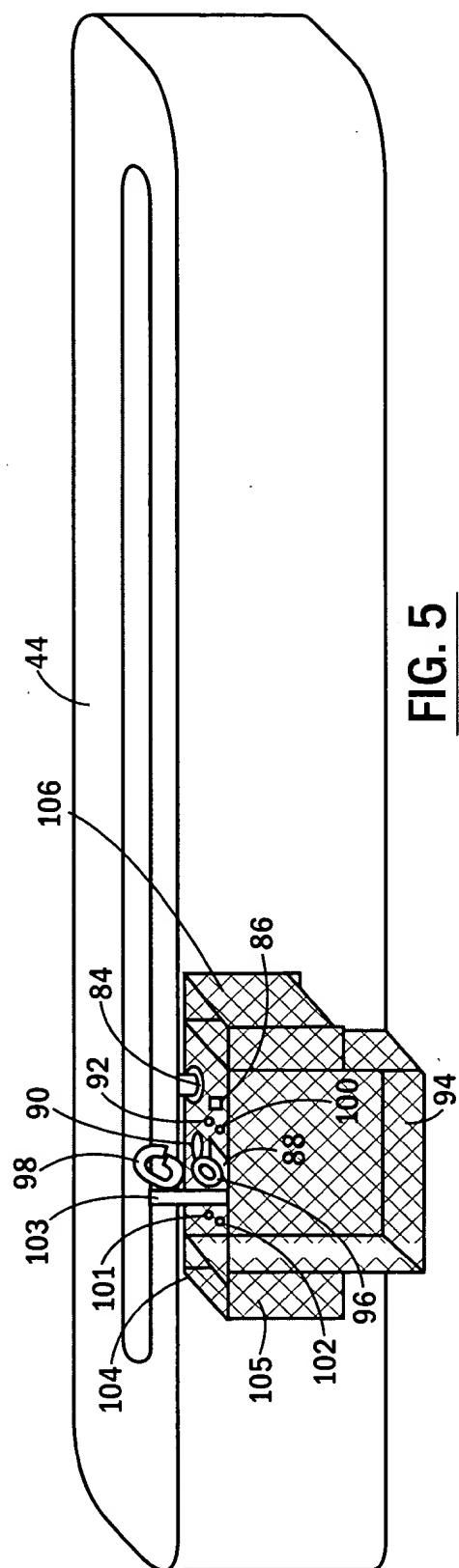


FIG. 4



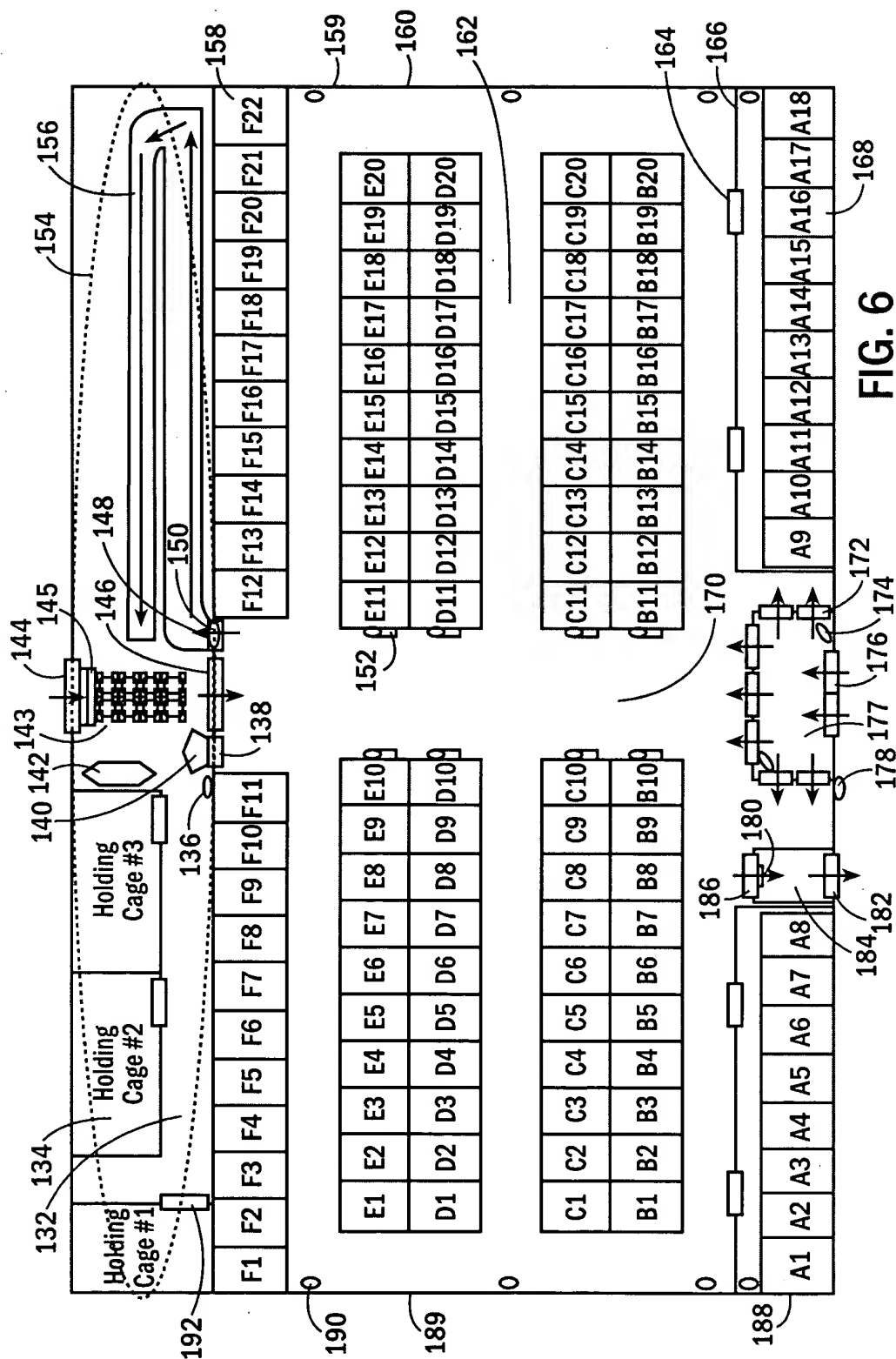


FIG. 6

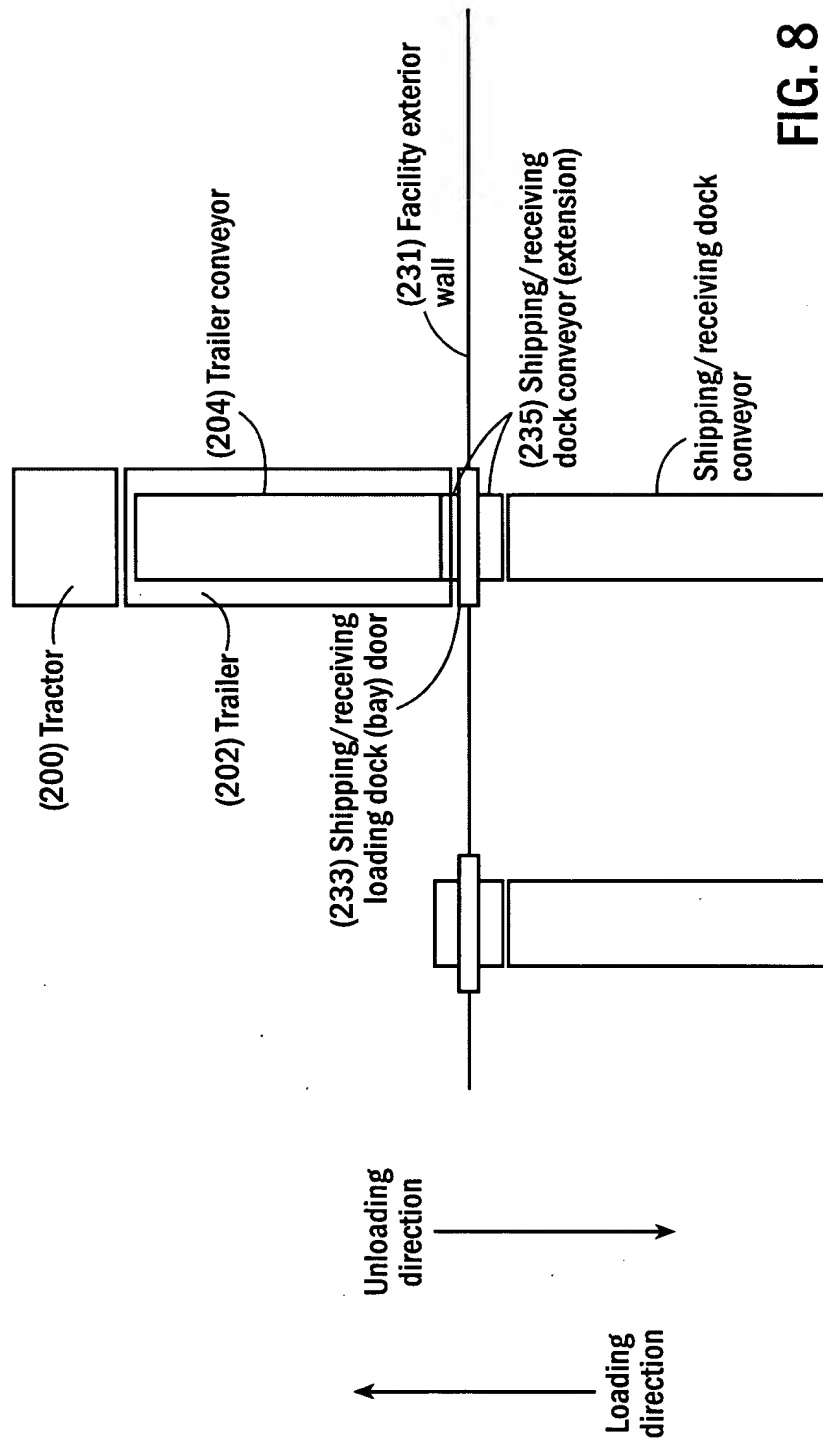


FIG. 8

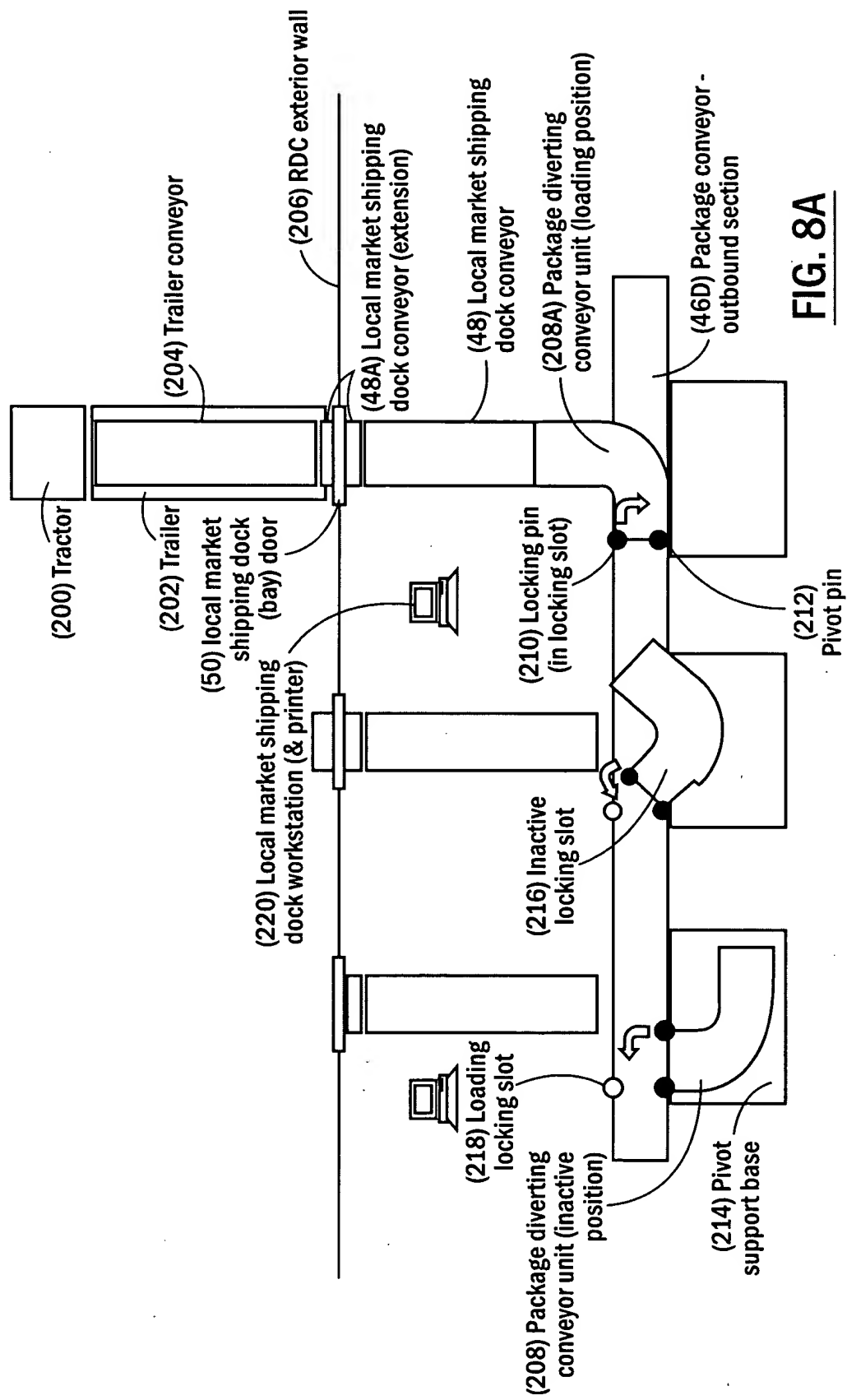


FIG. 8A

Order Header table																			
Order Id	Status	ePD Shipper Id	ePD Retailer Id	Retailer Order Number	Delivery Type	Customer Id	Ordering Customer Id	Order Date/Time	RDC Id	Local Market Id	Partial Ship	Retailer Message-Order Header	Retailer Message-Packing List	Delivery Name	Delivery Address 1	Delivery Address 2	Delivery City	Delivery State	Delivery Zip
amazon001-18362308-5-080300-001	open	epd	amazon001	987654321	ePD	183-62-3085	183-62-3085	08-03-00 14:23:02	AT001	sf0r	No	custom message (for order...)	custom message (for retailer)...						
1200																			
Order Detail table																			
Order Id	Status	SKU	SKU Size	Temperature Code	Quantity	Retailer Shipment Id	RDC Shipment Id	Package Id	Case Id	Retailer Message-Order Detail	Notification Date/Time	Pickup Date/Time							
amazon001-18362308-5-080300-001	Retailer clock	0123456789	small	standard	1	amazon001-080300-001	CH001-080300-00001	111221234-AT001-080400-001	amazon001-080300-123456	custom message (for order line item)...	7/12/2000 8:10:06 PM	7/13/2000 5:43:25 PM							
1202																			
SKU data view																			
SKU	RDC Id	Quantity																	
012345678901234567	AT001	214																	
1204																			
Case data view																			
SKU	RDC Id	Case Quantity	Item Quantity																
012345678901234567	AT001	3	11																
1206																			
Case table																			
Case Id	Status	ePD Retailer Id	SKU	SKU Size	Temperature Code	Quantity	RDC Id	Partial/Mixed Flag	Pick Grouping Id	Retailer Shipment Id	RDC Shipment Id	Local Market Id	CDC Id						
amazon001-080300-123456	destination RDC	amazon001	012345678901234567	small	standard	16	SE001	No	amazon001-080300-PG001	amazon001-080300-080300-001	CH001-080300-00001	sf0r	sf0r-019						
1208																			
Pick Grouping table																			
Pick Grouping Id	Retailer Shipment Id	Case Quantity																	
amazon001-080300-PG001	amazon001-080300-PG001	85																	
1210																			

FIG. 9A

FIG. 9A

Retailer Shipment table										1212												
Retailer Shipment Id	Status	ePD Retailer Id	ePD Shipper Id	Origination RDC Id	Retailer Employee Id	Trailer Id	Retailer Shipping Date/Time	Receiving Employee Id	Retailer Shipment Arrival Date/Time													
amazon001-080300-001	in-transit	amazon001	epd	CH001	333-22-4444	t-detro-4321	08-03-00 12:15:35	121-34-6565	08-03-00 17:25:08													
Retailer Shipment Receiving table										1214												
Retailer Shipment Id	Status	Employee Id	Trailer Id	ePD Shipper Id																		
amazon001-080300-001	replicated	121-34-6565	t-detro-4321	epd																		
RDC Shipment table										1216												
RDC Shipment Id	Status	ePD Shipper Id	Origination RDC Id	RDC Shipment Dock Id	RDC Shipment Prep Date/Time	RDC Shipment Trailer Date/Time	RDC Shipment Train Date/Time	RDC Shipment Arrival Date/Time	Destination RDC Id	Employee Id #1	Employee Id #2	Employee Id #3	Employee Id #4	Employee Id #5	Trailer Loading Employee Id	Train Loading Employee Id	Receiving Employee Id	Trailer Id	Carrier Id			
CH001-080300-00001	received	epd	CH001	CH001-R01	08-03-00 22:21:35	08-04-00 07:01:43	08-04-00 07:22:43	08-04-00 12:30:39	AT001	333-22-4441	333-22-4441	333-22-4443			333-22-4442	220-22-0022	454-66-7887	mob99-1234	rail-12345			
RDC Shipment Receiving table										1218												
RDC Shipment Id	Status	ePD Shipper Id	Origination RDC Id	Destination RDC Id	Receiving Employee Id	Case Id																
CH001-080300-00001	new	epd	CH001	AT001	mob99-1234	amazon001-080300-12345																
Local Market Case Inventory Local Market Order List data view							1220															
Local Market Id	ePD Retailer Id	SKU	Quantity (Needed)																			
sf00r	amazon001	0123456789	80																			
Local Market Case Inventory Local Market Order data view							1222															
Local Market Id	ePD Retailer Id	SKU	Quantity (Needed)																			
sf00r	amazon001	0123456789	48																			
CDC Order List data view							1224															
CDC Id	ePD Retailer Id	SKU	Quantity (Needed)																			
sf00r-019	amazon001	0123456789	8																			

FIG. 9B

FIG. 9B

1226			
CDCC Id	epD Retailer Id	SKU	Quantity
sfor-019	amazon001	0123456789	16
1228			
CDCC Id	epD Retailer Id	SKU	Quantity (Needed)
sfor-019	amazon001	0123456789	1
1230			
CDCC Id	Customer Id	SKU	Quantity (Needed)
sfor-019	amazon001	0123456789	1
1232			
CDCC Id	Packing Employee Id	Temperature Code	Package Size
sfor-019	323-55-608	183-62-3085	1
1234			
Package Id	epD Shipper Id	RDC Id	Delivery Shipment Id
111221234-AT001-080400-001	epd	183-62-3085	CY001-001-080300
1236			
Package Bag Holder Id	CDCC Id	Status	Packing Employee Id
sfor-019-PS01-BH01	sfor-019	package	323-55-6084

FIG. 9C

Delivery Shipment table																		
Delivery Shipment Id	Status	ePD Shipper Id	RDC Id	CDC Id	Temperature Code	RDC Employee Id	Trailer Loading Employee Id	Trailer Id	Delivery Shipment Loading Date/Time	CDC Employee Id	Delivery Shipment Arrival Date/Time							
CH001-080300-001	in-transit	epd	CH001	sfmr-019	standard	824-08-5432	333-22-4442	t-detro-4321	08-04-00 16:41:20	333-22-4444	08-04-00 19:15:28							
Report Header table																		
Report Id	Case Id	ePD Retailer Id	SKU	Quantity Difference	RDC Id	1240												
RPT-AT001-082300-001	amazon001-123456	amazon001	01234567890	-1	AT001													
Report RDC/CDC Package Inspection Detail table																		
Report Id	Quantity	Package Id	Package Status	Delivery Shipment Id	CDC Id	1242												
RPT-AT001-082300-001	3	111221234-AT001-080400-001	CDC processing	CH001-001 080300	sfmr-019													
RDC Package Inspection Report Detail table																		
Report Id	Quantity	Package Id	Package Status	Delivery Shipment Id	SSU Id	Master Bin Id	LDDH Delivery Vehicle Id	Inspection Authorization Code	Over Quantity Adjustment Code	Short Quantity Adjustment Code	1244							
CPI-AT001-082300-001	2	111221234-AT001-080400-001	CDC processing	CH001-001 080300	A01	01	A01-01-0234											
Retailer table																		
ePD Retailer Id	ePD Retailer Description	Status	Connection Script	Comments	Local Market Id	Address 1	Address 2	City	State	Zip	Contact Number	Returns Local Market Id	Returns Address 1	Returns Address 2	Returns City	Returns State	Returns Zip	Returns Contact Number
amazon001	Amazon.com QPS Midwest	active	"connection string"		chica	2609 W. Butler Ave.		Chicago	IL		303-619-303-619-1823	amazon001 RE-001	1102 E. Verde Highway		San Mateo	CA	90455	609-455-7219
Item Inventory table																		
ePD Retailer Id	SKU	Warehouse Location	Status	Quantity	Temperature code	1248												
amazon001	012345678901234567	8212	shippable	60	standard													

1238

1240

1242

1244

1246

1248

FIG. 9D

FIG. 9D

SKU	Status	Standard Case Quantity	SKU Size	Temperature Code	Product Description
(U)234567					Miami Hurricanes baseball cap
8912345					
67	active	20	small	standard	

CDC Id	Status	CDC Description	Local Market Id	Type	CDC Server Connection Script	Address 1	Address 2	City	State	Zip	Primary Contact Number	Secondary Contact Number	Temp Code Reservation Override
sfor-019	active	Commercial Blvd Location	sfor	CDC	"connection string"	150 E Commercial Blvd		Fort Lauderdale	FL	33333	954-321-4321	954-987-9876	40

Zip Code	Distance #1	Distance #2	Distance #3	Distance #4	Distance #5
33333	sfor-019	5	sfor-020	5	sfor-021
				10	sfor-017
					11

Customer Id	PIN	Last Name	First Name	CDC Preference	Previous CDC	Zip Code	Primary Contact Type	Primary Contact Number/ Address	Primary Calling Window Start Time	Primary Calling Window End Time	Secondary Contact Type	Secondary Contact Number/ Address	Secondary Calling Window Start	Secondary Calling Window End Time	Dual Notification Indicator	ePD Account Balance
123-45-6789	9876	Semfield	Jerome	sfor-019	sfor-019	33333	phone	954-565-4444	24	8:00	e-mail	customer@minispring.com			yes	0

RDC Id	ePD Shipper Id	Status	RDC Server Connection Script	Address 1	Address 2	City	State	Zip
AT001		active	"connection string"	1700 W. Dolphin St.		Atlanta	GA	22314

ePD Shipper Id	Status
ePD	active

RDC Id	Type	Quantity
sfor-019	cargo cage	5

RDC Local Market Id	ePD Shipper Id	Local Market Id
AT001	ePD	ncal

Item Return Header table															1266			
Item Return Id	Status	ePD Shipper Id	Customer Id	CDC Id	ePD Retailer Id	RDC Id	Returns Local Market Id	Item Return Creation Date/Time	CDC Reverse Shipment Id	Original Order Delivery Type	Original Order CDC Id	RDC Shipment Id	RDC Returns Shipment Id	Item Return Retailer Receipt Date/Time				
amazon001-18362308-5-sf0r-019-122800-1R001	in CDC	epd	183-62-3085	sf0r-019	amazon001	CA001	ncall	12-06-00 8:11:19	sf0r-019-120600-RS001	epD	sf0r-019	CH001-120600-00001	amazon001-1204700-001	12-07-00 13:26:03				
Item Return Detail table															1268			
Item Return Id	SKU	Package Id	Order Id	Return Quantity	Return Reason Code	Return Reason Comment	Return Order Number	Return Order Date/Time										
amazon001-18362308-5-sf0r-019-122800-012345678-1R001		111221234-AT001-183623085-120400-001	amazon001-183623085-120300-001	2		item was the wrong size	987654321	12-03-00 14:23:02										
CDC Outbound Package table															1270			
CDC Outbound Package Id	Status	ePD Shipper Id	Shipping Customer Id	Delivery Type	Origin CDC Id	Recipient Customer Id	Destination CDC Id	RDC Id	Local Market Id	Temperature Code	Weight	Cost	Delivery Name	Delivery Address 1	Delivery Address 2	Delivery City	Delivery State	Delivery Zip
88822424-4-sf0r-019-080400-001	in origination CDC	epd	111-22-1234	epD	sf0r-019	888-22-4244	ncall-005	AT001	sf0r	standard	5.75	\$3.00						
CDC Outbound Package table (continued)																		
Payment Method	Payment Card Number	Payment Authorization	Payment Reverse Shipment ID	RDC Shipment Id	Package Size	Delivery Shipment Id	Notification Date/Time	Pickup Date/Time										
credit card	234542346-423456000	79878756	sf0r-0190-120600-RS001	CH001-120600-00001	1	CH001-001	12/12/2000 8:00:06 PM	12/13/2000 5:43:25 PM										
CDC Reverse Shipment table															1274			
CDC Reverse Shipment Id	Status	CDC Id	ePD Shipper Id	Origin CDC Id	Shipment Creation Employee Id	Landing Employee Id	Reverse Shipment Date/Time	Reverse Shipment Arrival Date/Time	CDC									
sf0r-019-120600-RS001	in-transit	sf0r-019	epd	CH001	333-22-4444	444-33-5555	12-06-00 12:15:35	12-06-00 12:25:08										

FIG. 9F

FIG. 9F

RDC Returns Shipment table															1276			
RDC Returns Shipment Id	Status	ePD Shipper Id	ePD Retailer Id	RDC Id	Temperature Code	RDC Employee Id #1	RDC Employee Id #2	RDC Employee Id #3	RDC Employee Id #4	RDC Employee Id #5	Trailer Loading Employee Id	Trailer Id	RDC Returns Shipment Loading Date/Time	Retailer Employee Id	RDC Returns Shipment Arrival Date/Time			
CH001-120700-001	open	epd	amazon001	CH001	standard	824-08-5432						333-22-444	1-detor-4321	08-04-00 16:41:20	333-22-4444	08-04-00 19:15:28		

Order Header History table															1278					
Order Id	Status	ePD Shipper Id	ePD Retailer Id	Retail Order Number	Delivery Type	Customer Id	Ordering Customer Id	Order Date/Time	RDC Id	Local Market Id	CDC Id	Partial Ship	Retailer Message-Order Header	Retailer Message-Package List	Delivery Name	Delivery Address 1	Delivery Address 2	Delivery City	Delivery State	Delivery Zip
amazon001-18362308-5-080300-001	picked up	epd	amazon001	987654321	ePD	183-62-3085	183-62-3085	08-03-00 14:23:02	AT001	sfior		No	custom message (for order)...	custom message (for message (for retailer)...						

Order Detail History table													1280			
Order Id	Status	SKU	SKU Size	Temperature Code	Quantity	Retailer Shipment Id	RDC Shipment Id	Package Id	Case Id	Retailer Message-Order Detail	Notification Date/Time	Pickup Date/Time				
amazon001-18362308-5-080300-001	picked up	0123456789 01234567	small	standard		amazon001-080300-00001	CH001-080300-00001	111221234-AT001-080400-001	amazon001-080300-123456	custom message (for order line item)...	7/12/2000 8:10:16 PM	7/13/2000 5:43:25 PM				

FIG. 9G

Bill Inventory table														
Bin Id	SBU Id	Master Bin Id	Bin Size	Configuration Code	Temperature Code	Customer Id	PIN	Quick Code	Package Id	Status	Delivery Employee Id	ePD Shipper Id	Delivery Date /Time	Notification Date /Time
A01-01						183-02-			111221234-		183-02-	ePackage-	7/12/2000	7/12/2000
0234	A01	01	3	234	standard	3085	9999	1111	080400-001	notified	3085	Depot	8:03:22 PM	8:10:05 PM
1300														
Bin Availability data view														
Bin Size	3 standard	Quantity	47											
1301														
Bin Reservation table														
Bin Size	Temperature Code	ePD Shipper Id	Reservation Date/Time	Quantity	Trailer Loading Employee Id	Status	1302							
3 standard		ePackage Depot	7/11/2000 11:33:04 PM	11	183-44-114288	new								
1303														
Reserved Bins data view														
Bin Size	Temperature Code	Quantity	19											
3 standard														
1303														
Pending Bin Adjustments table														
Bin Size	Temperature Code	Quantity Adjustment	-1											
3 standard														
1304														
Unreserved Bins data view														
Bin Size	Temperature Code	Quantity	28											
3 standard														
1305														

FIG. 10A

Configuration Adjustments Log table	Configuration Adjustment Id	Configuration Type	Bin Id 1	Bin Id 2	Bin Id 3	Bin Id 4	Configuration Code 1	Configuration Code 2	Configuration Code 3	Configuration Code 4	Employee Id	Configuration Date/Time	1306
	A01-01												
	0234-		A01-01								193-62-	12/13/2000	
	121300	dividing	0234				2	34			3085	6:59:17 PM	

High-availability Bins data view	SBU Id	Temperature Code	Available Quantity	1307
	A01	standard	32	

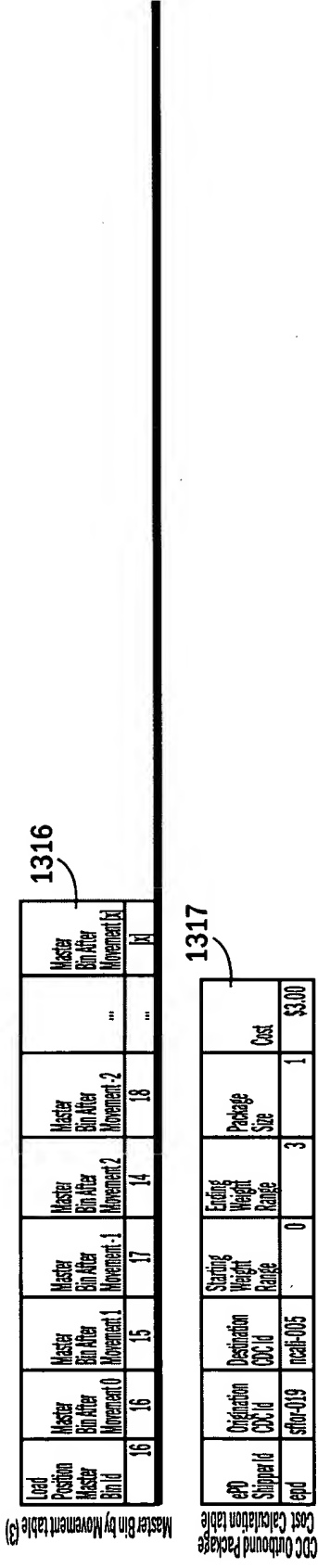
Employee table	Employee Id	epd	Local Market Id	1308
	432-47-			
	0926	epd	stor	

Notification on Check table	Customer Id	1310
	123-45-	
	6789	

FIG. 10B

Notification Queue table									
Customer Id	Record Date/Time	Total Number of Packages	New Indicator	First Notification Date/Time	Last Primary Contact Date/Time	Last Secondary Contact Date/Time	Next Primary Contact Date/Time	Next Secondary Contact Date/Time	Number of Primary Attempts
123-45-6789	7/12/2000 8:06:22 PM	1	yes	null	null	null	null	null	0
Package Pickup table									
COC Id	Bin Id	SBU Id	Master Bin Id	Configuration Code	Bin Size	Temperature Code	Customer Id	PIN	Quick Code
sf0r-019	A01-01-0234	A01	01	234	3	standard	183-62-3085	9999	1111
Quick Code table									
Quick Code	1111								
SBU Settings table									
SBU Id	Load Position Master Bin Id	Door Configuration Code	1314						
A01	16	100							
Bin Movement table									
Load Position Master Bin Id	Movement needed for Master Bin 01	Movement needed for Master Bin 02	Movement needed for Master Bin 03	Movement needed for Master Bin 04	1315				
16	3	4	4	4					

FIG. 10C



Application listing

	Application Name	Application Server(s)
	ePD Billing and Maintenance Application	Corporate
	ePD Shipping Application	Retailer, RDC
	ePD Delivery Application	RDC, CDC
	ePD SBU Application	CDC

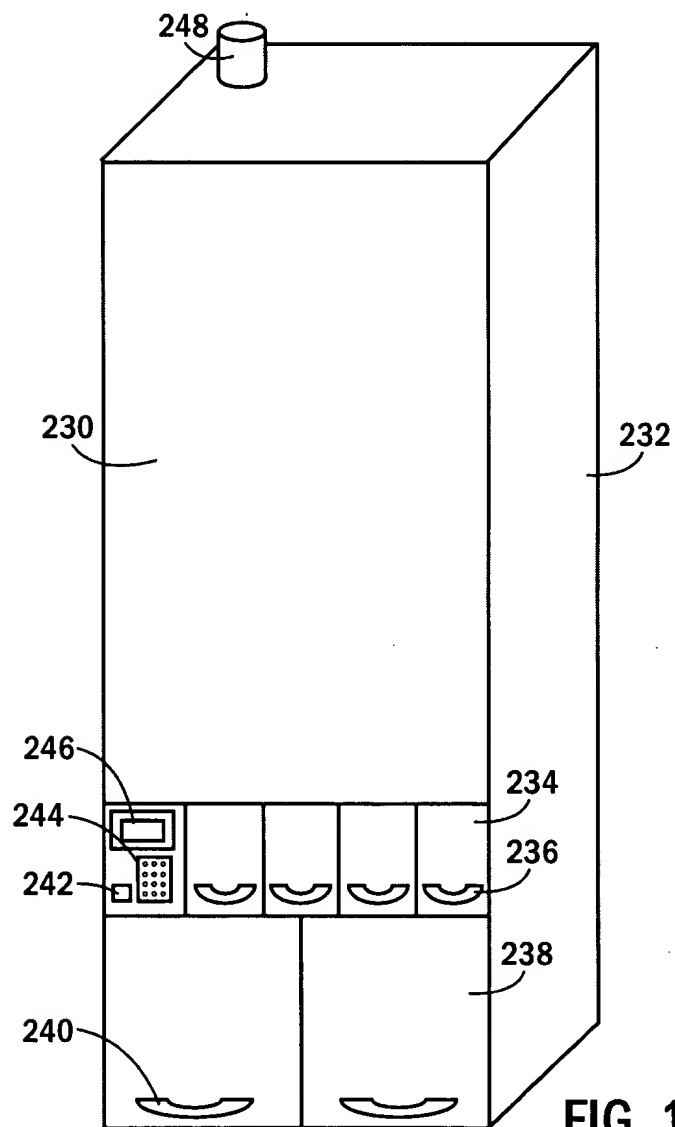
Program listing

Ref #	Program Name	Application
(310)	Pick List Report Program	ePD Shipping Application (retailer's instance)
(311)	Receive RDC Returns Shipment Data	ePD Shipping Application (retailer's instance)
(312)	Retailer Shipment Program	ePD Shipping Application (retailer's instance)
(313)	Receive RDC Returns Shipment Program	ePD Shipping Application (retailer's instance)
(314)	Retailer Shipment Adjustments Program	ePD Shipping Application (retailer's instance)
(315)	Retailer Package Creation Program	ePD Shipping Application (retailer's instance)
(316)	Receive Retailer Shipment Program	ePD Shipping Application (shipper's instance, origination RDC)
(317)	Receive RDC Reverse Shipment Data Program	ePD Shipping Application (shipper's instance, destination RDC)
(318)	RDC Shipment Program	ePD Shipping Application (shipper's instance, origination RDC)
(319)	Receive RDC Reverse Shipment Program	ePD Shipping Application (shipper's instance, destination RDC)
(320)	RDC Shipment Loading Program	ePD Shipping Application (shipper's instance, origination RDC)
(322)	Train Loading Program	ePD Shipping Application (shipper's instance, origination RDC)
(324)	Receive RDC Shipment Program	ePD Shipping Application (shipper's instance, destination RDC)
(326)	Local Market Sort Program	ePD Shipping Application (shipper's instance, destination RDC)
(328)	CDC Sort Program	ePD Shipping Application (shipper's instance, destination RDC)
(330)	Package Creation Program	ePD Delivery Application (shipper's instance, destination RDC)
(332)	Packing List Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(334)	RDC Package Inspection Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(336)	CDC Package Inspection Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(338)	Packing Adjustment Program	ePD Delivery Application (shipper's instance, destination RDC)
(340)	Delivery Shipment Creation Program	ePD Delivery Application (shipper's instance, destination RDC)

FIG. 11A

Ref #	Program Name	Application
(341)	RDC Returns Shipment Creation Program	ePD Delivery Application (shipper's instance, destination RDC)
(342)	Delivery Shipment Program	ePD Delivery Application (shipper's instance, destination RDC)
(343)	RDC Returns Shipment Data Transfer Program	ePD Delivery Application (shipper's instance, destination RDC)
(344)	Configuration Adjustments Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(345)	Shipment Adjustments Report Program	ePD Delivery Application (shipper's instance, destination RDC)
(346)	Packing Materials Supply Program	ePD Delivery Application (shipper's instance, destination RDC)
(347)	Notification Update Program	ePD Delivery Application (shipper's instance, destination RDC)
(348)	Pickup Update Program	ePD Delivery Application (shipper's instance, destination RDC)
(349)	Billing Program	ePD Delivery Application (shipper's instance, destination RDC)
(350)	CDC Package Adjustment Program	ePD SBU Application
(352)	SBU Configuration Program	ePD SBU Application
(354)	Loading Guide Report Program	ePD SBU Application
(356)	Loading Program	ePD SBU Application
(358)	New Package Notification Program	ePD SBU Application
(360)	Notification Program	ePD SBU Application
(362)	Auto-Call Program	ePD SBU Application
(364)	Auto-e-mail Program	ePD SBU Application
(366)	E-mail Error Checking Program	ePD SBU Application
(368)	Package Location Report Program	ePD SBU Application
(370)	Unloading Program	ePD SBU Application
(372)	Bin Positioning Program	ePD SBU Application
(374)	Re-open Program	ePD SBU Application
(376)	Quick Code Reset Program	ePD SBU Application
(378)	CDC Returns Program	ePD SBU Application
(380)	CDC Outbound Package Creation Program	ePD SBU Application
(382)	CDC Reverse Shipment Creation Program	ePD SBU Application
(384)	CDC Reverse Shipment Program	ePD SBU Application
(386)	CDC Reverse Shipment Maintenance Program	ePD SBU Application
(388)	RDC Returns Shipment Update Program	ePD Delivery Application (shipper's instance, destination RDC)

FIG. 11B



SmartBin Unit (front external view)

FIG. 12

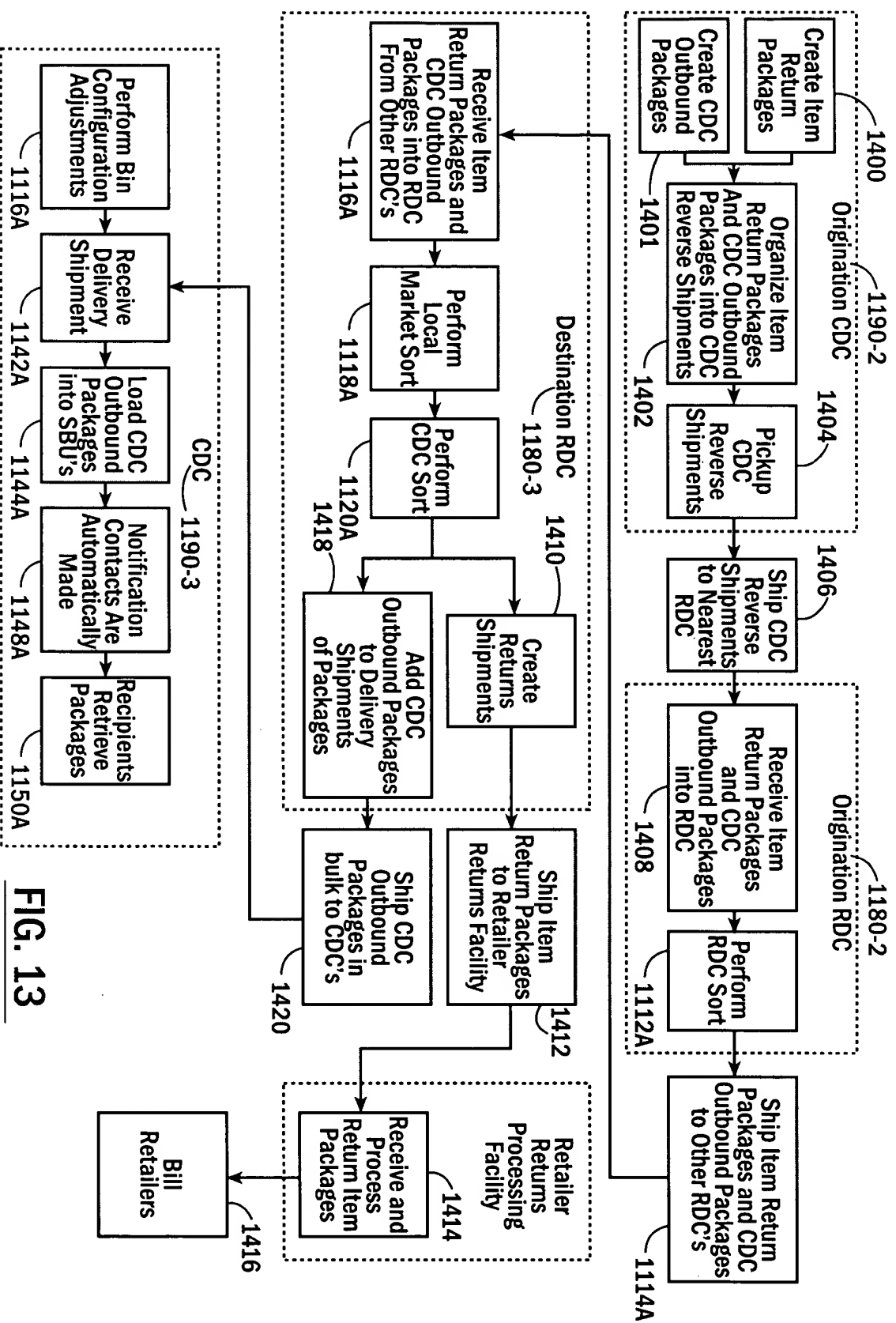


FIG. 13